Research, Equipment and Innovation to enhance Road Safety

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The European Union Road Federation (ERF):
- Non-profit European Association
- Represents public and private entities linked with Road Infrastructure
- European platform of dialogue
- Expresses the views of the Road Infrastructure Sector
- Promotes research
- For a safer, more sustainable and efficient mobility

The needs in terms of Road Safety (1) - RSAP
- Clear figures
- Comparable statistics
- Common definition (fatalities, serious injuries)

The needs in terms of Road Safety (2) - RSAP
- Clear Management Plan
- Country specific objectives
- Regular monitoring of the progresses

The role of the Road Infrastructure
- The 3rd Pillar (Driver, Vehicle, Infrastructure)
- Too often overlooked
- Efficient and low-cost measures
- Immediate effect

The Challenges
- Europe’s Ageing Population
  - By 2060 over 30% of the population will be 65 or more
- Increased mobility
- Vulnerable road users (cyclists, pedestrians, PTWs...)

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Major areas in the Road Infrastructure:
1. Road Restraint Systems
2. Road Surface
3. Road Markings
4. Road Signs
5. Road Management and Maintenance
6. ITS

1. ROAD RESTRAINT SYSTEMS (1)
   - Common testing Methods in Europe (EN 1317)
   - But, national decision on the level of protection
   - Different protection levels across Europe in similar conditions
   - Need for harmonisation
   - The Road Infrastructure Sector pleads for an harmonised implementation

2. ROAD SURFACE (1)
   - Main interface road/vehicle
   - Skid Resistance (high friction solutions)
   - All weather conditions (porous surfaces)

3. ROAD MARKINGS (1)
   - First and Main Visual Reference on the Road
   - Must be visible
   - In all weather conditions (WNV)

1. ROAD RESTRAINT SYSTEMS (2)
   - Proper installation and maintenance (common guidelines supported by manufacturers)
   - Vulnerable Road Users
     - PTW (adaptation of barriers to the PTW (EN 1317 Part 8)
     - Test procedures definition (e.g. with dummies)
   - Heavier Vehicles (e.g. EMS)

2. ROAD SURFACE (2)
   - Longer life cycle and less environmental impact
     - Recycling
     - More sustainable
     - Less maintenance (less safety risk)
3. ROAD MARKINGS (2)
- Retro-reflectivity (for all users)
- High performance systems
- Quality, Performance Standards
- Lower maintenance (less risks)

4. ROAD SIGNS (1)
- Visibility (night and day)
- Conspicuousness
- In adverse conditions

5. ROAD MANAGEMENT AND MAINTENANCE (1)
- Road Management
  - Clear Vision at all stages
    - Planning
    - Design
    - Construction
    - Operation
    - Maintenance

6. ITS (1)
- Role of Galileo and ICT technologies
  - Dynamic Traffic Management
    - Smoother traffic flow
    - Logistics
  - Transport of sensitive goods
    - Tracking and Tracing
    - Position and Status
    - Dangerous goods
    - Life stock
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6. I T S (2)
- EGNOS / GALILEO
  - Accuracy
  - Reliability
  - Consistency
  - Integrity
- Projects (Mentore, Scutum)
- Road User Charging (GINA)

CONCLUSIONS
- The Road Infrastructure Sector
  - is fully committed to R & D
  - provides now plenty of cost/benefit solutions
- Is a major contributor to the improvement of Road Safety

THANK YOU FOR YOUR ATTENTION

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